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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,265	09/09/2003	Ko Lee Wu	MR2657-28	3288

4586 7590 05/23/2005

ROSENBERG, KLEIN & LEE  
3458 ELLICOTT CENTER DRIVE-SUITE 101  
ELLICOTT CITY, MD 21043

EXAMINER
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MCDONALD, RODNEY GLENN

ART UNIT	PAPER NUMBER
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1753

DATE MAILED: 05/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/657,265

Applicant(s)

WU, KO LEE

Examiner

Rodney G. McDonald

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1753

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Sun et al.  
(U.S. Pat. 6,447,731).

Sun et al. teach a cleaning device for producing ozone and anions. (See Abstract) In Fig. 5 the device comprises ventilation vents through which air is sucked in. The air passes through cloth 16 and anion and ozone generator 17. Thereafter, fresh air is guided by two lateral wind-guiding wings 24 out of the cleaning device to create a circulation of convection. (Column 3 lines 10-17) After the power cable 19 is plugged into a socket, the power supply 18 provides power for respective components including the anion and ozone generator 17. (Column 2 lines 27-30)

Claims 1 is rejected under 35 U.S. 102 (b) as being anticipated by Taylor et al.  
(U.S. Pat. 6,163,098).

Taylor teach in Figs. 2C and 2D an electronic device which plugs into a wall socket. (Column 5 lines 21-30) When the unit 100 is energized, high voltage output ion

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generator 160 produces ions at the first electrode array, which ions are attracted to the second electrode array. The movement of the ions in an "IN" to "OUT" direction carries with them air molecules, thus electrokinetically producing an outflow of ionized air. (i.e. anions) The "IN" notation in Figs. 2A and 2C denote the intake of ambient air with particulate matter (dust, dirt, etc.) 60. The "OUT" notation in the figures denotes the outflow of cleaned air substantially devoid of particulate matter, which adheres electrostatically to the surface of the second array electrodes. In the process of generating the ionized air flow, safe amounts of ozone are beneficially produced. (Column 5 lines 40-52) A louvered construction provides the air outlets. (Column 5 lines 1-13)

There is circuitry to rectify alternating voltage into direct current. (Column 5 lines 62-64)

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Lau et al. (U.S. Pat. 6,632,407).

Lau et al. teach an electronic device 100 seen in Figure 2A. The device has a plurality of air outlets 106 in an outer shell. (See Figure 2A; Column 5 lines 5) The system provides electrokinetically moving air with ions (i.e. anions) and safe amounts of ozone. (See Abstract; Column 6 lines 19, 26, 27) In Fig. 2B the system 100 is mounted on to an interior of a motor vehicle. The ion generating unit 160 is connected to the cigarette lighter of the motor vehicle. (Column 5 lines 15-24) The circuitry and components comprise a high voltage pulse generator 170 and circuit 180 on a circuit board. (Column 6 lines 44-47)

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***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al. (U.S. Pat. 6,163,098).

Taylor et al. is discussed above and all is as applies above. (See Taylor et al. discussed above)

The difference not yet discussed is the use of the electronic device as an AC adapter.

Taylor et al. suggest that the AC voltage is rectified to DC voltage. (Column 5 lines 62-64) This suggest adapting AC voltage to DC voltage.

The motivation for adapted AC voltage is that it allows for cleansing of the air. (Column 3 lines 34-43)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have Modified Taylor et al. by adapting the AC voltage as taught by Taylor et al. because it allows for cleansing of the air.

Claims 1, 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lau et al. (U.S. Pat. 6,632,407) in view of Lee (U.S. Pat. 6,076,000).

Lau et al. is discussed above and all is as applies above. (See Lau et al. discussed above)

The differences between Lau et al. and the present claims is the incorporation of the electronic device into a mobile telephone hand-free handset and incorporation of the electronic device into a mobile telephone battery charger for use in a motor vehicle.

Regarding the mobile telephone hand-free handset, Lee teach that a mobile telephone hand-free handset in which the microphone is installed in the charging connector. (See Abstract) It is designed to connect to a car's power supply through the cigarette lighter. (Column 2 lines 9-10)

The motivation for utilizing a hand-free handset in the charging connector is that it allows for talking over the phone with both hands free. (Column 1 line 43)

Regarding the charger, Lau et al. teach the use of a charger for connecting a mobile phone to be charged to a car's power supply. (Column 2 lines 8-20)

The motivation for connecting the charged is that it allows charging of the mobile phone. (Column 2 lines 8-20)


Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Lau et al.'s electrical cable/charger plugged into the cigarette lighter of a vehicle by incorporating in the electrical cable/charger a hand-free handset as taught by Lee or to have incorporated charging of a mobile phone as taught by Lee because it allows for hands free talking and charging of the phone.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Rodney G. McDonald  
Primary Examiner  
Art Unit 1753

RM  
May 16, 2005